

**DUSP6 / MKP3 Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3910a****Specification**

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**DUSP6 / MKP3 Antibody (C-Term) - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q16828</a>
Other Accession	<a href="#">NP_001937.2</a> , <a href="#">NP_073143.2</a> , <a href="#">1848</a> , <a href="#">67603</a> (mouse), <a href="#">116663</a> (rat)
Reactivity	Human, Mouse, Rat, Pig
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	42320

**DUSP6 / MKP3 Antibody (C-Term) - Additional Information****Gene ID** 1848**Other Names**

Dual specificity protein phosphatase 6, 3.1.3.16, 3.1.3.48, Dual specificity protein phosphatase PYST1, Mitogen-activated protein kinase phosphatase 3, MAP kinase phosphatase 3, MKP-3, DUSP6, MKP3, PYST1

**Dilution**

WB~~1:1000  
E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DUSP6 / MKP3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DUSP6 / MKP3 Antibody (C-Term) - Protein Information****Name** DUSP6**Synonyms** MKP3, PYST1

### Function

Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed:<a href="http://www.uniprot.org/citations/8670865" target="\_blank">8670865</a>). Has a specificity for the ERK family (PubMed:<a href="http://www.uniprot.org/citations/8670865" target="\_blank">8670865</a>). Plays an important role in alleviating chronic postoperative pain (By similarity). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (By similarity). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (By similarity). Promotes cell differentiation by regulating MAPK1/MAPK3 activity and regulating the expression of AP1 transcription factors (PubMed:<a href="http://www.uniprot.org/citations/29043977" target="\_blank">29043977</a>).

### Cellular Location

Cytoplasm.

### Tissue Location

Expressed in keratinocytes (at protein level).

## DUSP6 / MKP3 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## DUSP6 / MKP3 Antibody (C-Term) - Images



AF3910a (0.3 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## DUSP6 / MKP3 Antibody (C-Term) - Background

This antibody is expected to recognize both reported isoforms (NP\_001937.2; NP\_073143.2).

**DUSP6 / MKP3 Antibody (C-Term) - References**

Signal integration and coincidence detection in the mitogen-activated protein kinase/extracellular signal-regulated kinase (ERK) cascade: concomitant activation of receptor tyrosine kinases and of LRP-1 leads to sustained ERK phosphorylation via down-regulation Geetha N, Mihaly J, Stockenhuber A, Blasi F, Uhrin P, Binder BR, Freissmuth M, Breuss JM. J Biol Chem. 2011 Jul 22;286(29):25663-74. PMID: 21610072